10/588,973 IAP11 Rec'd PCT/PTO 10 AUG 2006

Docket No.

294602US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

Yuji FUJIMORI, et al.

SERIAL NO-

New US PCT Application Based on PCT/JP05/01804

GAU:

FILED:

Herewith

EXAMINER:

FOR:

CATALYST FOR PRODUCING ALPHA, BETA-UNSATURATED CARBOXYLIC ACID AND METHOD FOR

PREPARATION THEREOF, AND METHOD FOR PRODUCING ALPHA, BETA-UNSATURATED

CARBOXYLIC ACID

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR-

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon

Norman F. Oblon

Registration No. 24,618

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

Surinder Sachar

Registration No. 34,423

10/588973

IAP11 Rec'd PCT/PTO 10 AUG 2016 1 OF 1

Form PTO 1449	U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO.		SERIAL NO.	
(Modified)		PATENT AND TRAC		294602US0PCT		New US PCT Application Based on PCT/JP05/01804	
				APPLICANT			
LIST OF	REFE	RENCES CITED BY AP	PLICANT	Yuji FUJIMORI, et al.			
				FILING DATE		GROUP	
				Herewith			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME CLASS		SUB FILING DATE CLASS IF APPROPRIATE	
	AA	4 435 598	03/06/1984	HINNENKAMP			
	AB						
	AC						
	AD						
	ΑE						
	AF						
	AG		T.				
	AH			1 100 100 100 100 100 100 100 100 100 1			
	AI						=.
	AJ						
	AK						
	AL						
-	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
	AO	51 1389	01/08/1976	JP (equivalent of US 3969274)		YES	S NO NO
	AP	3 86242	04/11/1991	JP (with English abstract and equivalent of US			NO
	AQ	3 109946	05/09/1991	5153162) JP (with English abstract and equivalent of US 5082819)			NO
	AR	2001 172222	06/26/2001	JP (with English abstract)			NO
	AS	60 155148	08/15/1985	JP			NO
	AT		07/24/1985	JP			NO
	AU	60 139643	07/24/1985	JP			NO
	AV	02 083299	10/24/2002	wo			NO
	AW	56 59722	05/23/1981	JP (with English abstract)	-		NO
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AX						
	AY						
	AZ				Additional References sheet(s) attached		
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

10/588973 IAP11 Rec'd PCT/PTO 10 AUG 2006

New U.S. PCT Application Based on PCT/JP05/01804 Yuji FUJIMORI, et al. Docket No. 294602 US

STATEMENT OF RELEVANCY

- 1) References AA and AO-AQ have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References have been cited in the corresponding Search Report. A copy of these references is being submitted herewith.
- 3) References AR-AW are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References are additional prior art known to Applicant. A copy of these references is being submitted herewith.
- (AS)- JP 60-155148: What is claimed in claim 1 is a method for manufacturing an alpha, beta-unsaturated carboxylic acid: consisting a step oxidizing a C_3 - C_6 olefin mixed with air or oxygen in a liquid medium containing a free radical inhibitor in the presence of an activated palladium metal catalyst, wherein the catalyst is activated by contacting the supported palladium metal catalyst with the same or a different C_3 - C_6 olefin at least 60 °C for at least 10 minutes in the liquid medium substantially in the absence of oxygen; or consisting the oxidizing step after the activating step.
- (AT)- JP 60-139341: What is claimed in claim 1 is an activated palladium metal catalyst manufactured by contacting a supported palladium metal catalyst with a C_3 - C_6 olefin at at least about 60 °C for at least about 10 minutes in a liquid medium substantially in the absence of oxygen.
- (AU)- JP 60-139643: What is claimed in claim 1 is a method for manufacturing an alpha, beta-unsaturated carboxylic acid: consisting a step oxidizing a C_3 - C_6 olefin mixed with air or oxygen in a liquid medium containing a surfactant system consisted of a surfactant and a cosurfactant, respectively, of not more than about 1.5 vol% in the presence of an activated palladium metal catalyst, wherein the catalyst is activated by contacting the supported palladium metal catalyst with the same or a different C_3 - C_6 olefin at least about 60 °C for at least about 10 minutes in the liquid medium substantially in the absence of oxygen; or consisting the oxidizing step after the activating step.
- (AO)- JP 51-1389: What is claimed in claim 1 is a catalyst comprising: a activated catalytic material and a support medium preliminary formed; wherein the activated catalytic material is one selected from metals, salts, oxides, acids, alloys, heteropoly acids, herteropoly acid salts of an element of IB, IIB, IVB, V, VIB, VIIB or VII group, and mixtures thereof; comprising a xerogel of silica distilled at 300 °C or lower which has a legitimate or middle density as the support medium.